

# Partial Quorum Handling

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## What It Specifies

Each coordination class declares its quorum requirement and partial-quorum behavior. The architecture admits the coordination against the quorum; partial situations enter the declared partial-quorum procedure.

Procedures include: defer (wait for additional parties to arrive), escalate (request authority intervention), fall back (use a less-strict pattern with appropriate disclaimer), fail (record the partial-quorum failure with lineage).

## Why It Matters Structurally

Coordination assuming full quorum produces structural failure when reality presents partial quorum. Real operational scenarios routinely face partial quorum; the architecture must support it.

Partial-quorum handling produces structural support. The architecture admits partial situations; declared procedures handle them; the resulting outcome is auditable rather than ad-hoc.

## How It Composes With Mesh Operation

The architecture defines the procedures, the procedure selection, and the procedure-specific outcomes. Coordination implementations apply procedures within the architectural framework.

Procedures compose with other features. Partial-quorum escalation interfaces with authority chains; partial-quorum fall-back interfaces with pattern plurality; partial-quorum failure interfaces with dispute mechanisms.

## **What This Enables**

Operational coordination scenarios facing routine partial-availability (medical teams with partial staffing, defense formations with degraded membership, logistics handoffs with delayed parties) gain structural support.

The architecture also supports recovery. Coordination that started under partial quorum can promote to full quorum as additional parties arrive; the architecture admits the promotion structurally.